

## **IN THE CLAIMS**

Please amend claims 1, 4, 8 and 16 in which insertions are indicated by underline and deletions are indicated by strikethrough or double-bracketing. Please cancel claims 2, 3, and 10 without prejudice or abandonment of the subject matter thereof. This listing of claims will replace all prior versions, and listings, of claims in the application.

Claim 1 (currently amended). A swash plate plunger type hydraulic unit comprising:

- a cylinder which is rotatably supported and has a plurality of plunger holes extending in an axial direction and arranged in a loop to surround a rotation axis thereof;

- a plurality of plungers slidably disposed in the respective plunger holes;

- a swash plate to which outer end portions of the plungers are contacted;

- a casing for supporting the swash plate in such a manner that it can tilt and roll with a rolling axis perpendicular to the rotation axis as a center, and housing the swash plate and the cylinder; and

- a swash plate tilting angle detector detecting a tilting and rolling angle of the swash plate;

- the swash plate tilting angle detector comprising an angle detector mounted to the casing and a rotation connection mechanism having one end which is situated coaxial to the rolling axis and contiguously connected to the swash plate, and another end which is connected to the angle detector; and

- the rotation connection mechanism accurately transmits the tilting and rolling angle of the swash plate to the angle detector even when a rotation axis of a portion of the angle detector connected to the rotation connection mechanism is inclined at an angle with respect to the rolling axis,

- wherein the rotation connection mechanism comprises a first connection rod which is connected to the swash plate coaxially to the rolling axis, a second connection rod connected to the rotation detector, and a movable joint connecting the first connection rod to the second connection rod, and wherein the movable joint comprises a pin.

Claims 2 and 3 (canceled).

Claim 4 (currently amended). A swash plate type hydraulic unit of claim [[2]] 1, wherein the movable joint comprises one of a universal joint and a pin.

Claim 5 (original). A swash plate type hydraulic unit of claim 1, wherein the one end of the rotation connection mechanism is connected to the swash plate through a shaft securing member.

Claim 6 (original). A swash plate type hydraulic unit of claim 1, further comprising a rolling member connected to the swash plate and through which the swash plate can tilt and roll with the rolling axis.

Claim 7 (original). A swash plate type hydraulic unit of claim 6, wherein the one end of the rotation connection mechanism is connected to the rolling member.

Claim 8 (currently amended). A swash plate plunger type hydraulic unit comprising:

- a cylinder which is rotatably supported and has a plurality of plunger holes extending in an axial direction and arranged in a loop to surround a rotation axis thereof;

- a plurality of plungers slidably disposed in the respective plunger holes;

- a swash plate to which outer end portions of the plungers are contacted;

- a casing for supporting the swash plate in such a manner that it can tilt and roll with a rolling axis perpendicular to the rotation axis as a center, and housing the swash plate and the cylinder; and

- a swash plate tilting angle detector detecting a tilting and rolling angle of the swash plate;

- the swash plate tilting angle detector comprising an angle detector mounted to the casing and a rotation connection mechanism having one end which is situated coaxial to the

rolling axis and connected to the swash plate and another end which is connected to the angle detector; and

the rotation connection mechanism includes a first connection rod which is fixed to the swash plate coaxially to the rolling axis, and a second connection rod fixed to the rotation detector and movably connected to the first connection rod, wherein the first and second connection rods are movably connected through one of a universal joint and a pin.

Claim 9 (original). A swash plate type hydraulic unit of claim 8, wherein the first and second connection rods are movably connected such that the rotation connection mechanism accurately transmits the tilting and rolling angle of the swash plate to the angle detector even when a rotation axis of a portion of the angle detector connected to the rotation connection mechanism is inclined at an angle with respect to the rolling axis.

Claim 10 (canceled).

Claim 11 (original). A swash plate type hydraulic unit of claim 8, wherein the one end of the rotation connection mechanism is connected to the swash plate through a shaft securing member.

Claim 12 (original). A swash plate type hydraulic unit of claim 8, further comprising a rolling member connected to the swash plate and through which the swash plate can tilt and roll with the rolling axis.

Claim 13 (original). A swash plate type hydraulic unit of claim 12, wherein the one end of the rotation connection mechanism is connected to the rolling member.

Claim 14 (previously presented). A swash plate plunger type hydraulic unit disposed in a transmission housing, the hydraulic unit comprising:

a cylinder which is rotatably supported and has a plurality of plunger holes extending in an axial direction and arranged in a loop to surround a rotation axis thereof;

a plurality of plungers slidably disposed in the respective plunger holes;

a swash plate to which outer end portions of the plungers are contacted;

a casing fixed to the transmission housing for supporting the swash plate in such a manner that it can tilt and roll with a rolling axis perpendicular to the rotation axis as a center, and housing the swash plate and the cylinder; and

a swash plate tilting angle detector detecting a tilting and rolling angle of the swash plate;

the swash plate tilting angle detector comprising an angle detector mounted to the casing and a rotation connection mechanism having one end which is situated coaxial to the rolling axis and connected to the swash plate, and another end which is connected to the angle detector; and

the rotation connection mechanism accurately transmits the tilting and rolling angle of the swash plate to the angle detector even when a rotation axis of a portion of the angle detector connected to the rotation connection mechanism is inclined at an angle with respect to the rolling axis,

wherein the rotation connection mechanism comprises a first connection rod which is connected to the swash plate coaxially to the rolling axis, a second connection rod connected to the rotation detector, and a movable joint connecting the first connection rod to the second connection rod, and

wherein the movable joint comprises a pin, and the pin is disposed so as to be surrounded by the transmission housing.

Claim 15 (previously presented). The swash plate hydraulic unit of claim 14, wherein the angle detector includes an electric connector, and the electric connector extends in parallel with the rotation axis of the cylinder.

Claim 16 (currently amended).      A swash plate type hydraulic unit of claim 40 ~~8~~, wherein the casing for supporting the swash plate is fixed to a transmission housing of a transmission, and wherein the pin is disposed so as to be covered by the housing.

Claim 17 (previously presented).      The swash plate type hydraulic unit of claim 16, wherein the angle detector includes an electric connector, and the electric connector extends in parallel with the rotation axis of the cylinder.